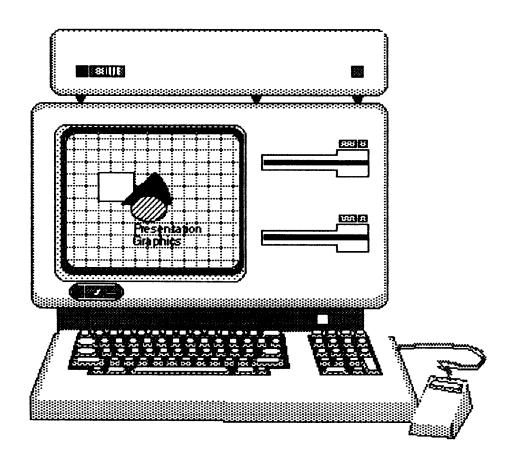
Apple Lisa Computer Info: Lisa Document # 031 Document# 31 **Apple Lisa Information** Lisa Product Introduction Plan DISK # Apple Poc David T. Craig 736 Edgewater, Wichita, Kansas 67230 (316) 733-0914 Parting and the company of the compa Lisa "000.PICT" 262 KB 2000-03-07 dpi: 72h x 72v pix: 2528h x 3936v Page 0001 of 0056 Source: David T Craig



Apple Lisa Personal Computer 1983 to 1985

Product Intro Plan (14 Jan 83)



David T. Craig - 736 Edgewater, Wichita, Kansas 67230 - (316) 733-0914

"001.PICT" 278 KB 2000-03-07 dpi: 72h x 72v pix: 2825h x 3640v

Source: David T Craig Page 0002 of 0056

Apple Lisa Computer Info: Lisa Document # 031

Lisa Product Introduction Plan

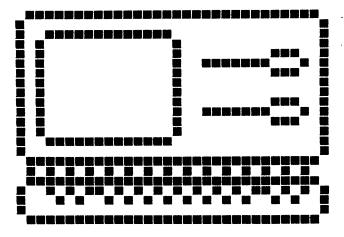
Plaintiff (5)

Exhibit No.

Deposition of Lianc Volz, Motaty

Pate

8.-31-86



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"002.PICT" 200 KB 2000-03-07 dpi: 72h x 72v pix: 2842h x 4042v

Source: David T Craig

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PRODUCT INTRODUCTION PLAN

JANUARY 14, 1983

APPROVALS:

NAME:

SIGNATURE:

Joy McCully. POS Office Herket Hgr.

Ellen Hold
POS Merketing Support Myr.

Berry Smith POS Software Proc. Making.

Rick Torpere POS Herovere Prod. Nikty.

Deme Claince
POS Division Mektg. Dir.

John Couch POS Division Gen. Mgr. Bry South

ON I

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"003.PICT" 168 KB 2000-03-13 dpi: 72h x 72v pix: 2415h x 3405

Source: David T Craig

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DOMESTIC PRODUCT INTRODUCTION PLAN

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1.	EXECUTIVE SUTTARY
2.	PRODUCT STRATEGY 2.1 Product Surrary
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	SUPPORT STRATEGY 4.1 Product Testing
5.	RISKS AND OPEN ISSUES
6.	ATTACHENTS. A. Pricing Analysis B. Price List C. Sales Forecast D. Corpetitive Analysis E. Questions & Answers F. Help Cards G. Marketing Corunications Calendar H. Introduction Package to Field I. Jeninar Agenda J. Seminar Cities K. Sneak Preview Attendees L. Service and Support Options H. RCA Service Cities N. Product Line Data Sneets

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"004.PICT" 262 KB 2000-03-13 dpi: 72h x 72v pix: 2415h x 3720·

Source: David T Craig

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1. Executive Summary

January 19, 1933, marks the end of a long development effort to bring Lisa to market, but also the beginning of a new era in personal computing. On that date at the annual shareholder's meeting, Lisa vill be officially annunced with simultaneous annuncements in other apple countries throughout the world. In conjunction with the annuncement of the Apple //e, Lisa vill be presented as the first truly easy to learn and use, Personal Office Computer System for under \$10,000: This vill again reinforce apple computer as the termological leader in the growing Personal Computer arena.

Just as the Apple][first established Apple as the leader with an innovative and flexible solution based on hardware technology, Lisa will establish the standard for software technology of the 80s.

The following Product Introduction Plan outlines in detail the product, the introduction senario, the marketing and support strategies and open issues related to launching the most comprehensive product offering Apple has ever attempted.

A quick surrary of the objectives are:

- Arrounce, launch and ship the Lisa Personal Office System as a bundled system for \$9995;
 - A 1 MB system with Keyboard and Mouse
 - A 5 NB Profile hard disk system
 - 6 Professional application tools:

Lisuale - scread sheet

LisaList - personal detabase

LisaProject - resource scheduling

Lisabrite - text processing

LisaGraph - plotting

LisaDraw - graphics editor

- · Announce, launch and ship all supporting software, peripherals and accessories
- Sell at least 10,000 units in the last half of FY 83 and 42,000 units in FY 84
- Neet Corporate Return on Sales goals in FY 84
- . Establish Lise as THE Personal Office System of choice
- Provide complete support for our customers through innovative, cost effective programs

This Product Introduction Plan is targeted only to the domestic introduction. POS Europe and POS International have issued an extensive PIP for Europe (November, 1982) addressing the issues related to International rollout. PIPs for the individual countries (including the rejor intercontinental markets) are currently under development.

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2. Product Strategy

2.1 Product Survey

The following section describes the feetures of Lisa software, hardware, peripherals, and accessories that will be amounced on January 19, 1943.

Lim Bunile

The Lisa concept is most apparent when a rull set or applications with a corror

user interface and integration between tools can be utilized. Thus, we will be encouraging the use of the applications through an aggressively priced stand alone package that includes all of the most common tools needed by information professionals.

Lise will only be seeilable in the beginning as a bundle with the following:

- 1 mg Lisa microframe with Keyboard and House
- 5 MB Profile hard disk system
- 6 Professional Series Applications

LisaCalc - soread sneet

Lisalist - personal database

LissTroject - project scheduling

Lisaurite - word processing

LissGraph - plotting

Lisabrau - graphics editor

In emition, there are communication applications, modern, printers, and other accesories that can be access to meet the specialized needs of the user. Detailed data sheets of each of the products are included as Attachment X at the end of this document.

SOFTWOE

Lisa's User Interface and applications are the heart of the product line. It must be seen to be believed!

All applications use a corron filling and printing system. We also provide an interactive moruel, LisaGuide, to introduce the user to Lisa concepts. Limited integration will allow the user to transfer LisaGuide data to LisaGraph and LisaWrite Documents: and graphs from LisaGraph or LisaProject to LisaDraw, with full integration to follow. All applications use a software protection scheme which allows users to make unlimited copies of tools for one given machine from a master. The master may be used on any Lisa.

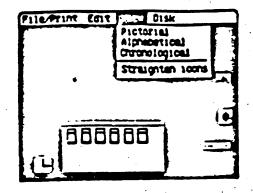
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3120

Lisa Desktop Manager

This is what the user will see first and is the closest thing to what is considered a more traditional 'operating system' except that in Lisa it is a shell on top of the Lisa OS, window manager, and printing software

LisaDesk uses familiar objects on the desktop, called icons, to indicate the document, folder, or disk the user may select to move, copy, file or throw in



the waste basket. The user may also define the characteristics of a standard document and then create a stationery pad. The new document, when 'torn' from the pad, is a template. When activated, it will automatically start the application necessary to begin work in that letter, memo, worksheet, list, chart, graph, or drawing. LisaDesk will automatically 'time stamp' the date and time of creation and last modification. Disk or folder catalogs can be displayed as pictorial 'icons' or in tabular form organized in alphabetical or chronological order.

The printing software supports the Apple Dot Matrix and Daisy Wheel Printers. Both are capable of printing text AD graphics - even the letter quality printer with Apple's unique 130 character daisy wheel?

The Dot Matrix printer can print text and graphics (including all symbols) in both high and low resolution and in landscape (horizontal) or portrait (vertical) modes. The user can specify several type styles and sizes, printer configurations, paper sizes and types, and fixed or proportional space all from menus without having to bother with switches inside the printer. Very large charts, such as critical path diagrams can be printed up to 32 square feet!

Most important is the visual fidelity maintained throughout. What appears on the screen is exactly what will be printed. All page breaks can be previewed and there are no surprises when the final draft is done!

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"007.PICT" 377 KB 2000-03-07 dpi: 72h x 72v pix: 2848h x 3983v

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Page 0008 of 0056

Apple Lisa Computer Info: Lisa Document # 031

LisaCalc

A powerful electronic spreadsheet and financial modeling tool that is essentially the same as Visicalca, plus; A superior user interface using graphics and mouse.

16 digit Precision that conforms to the IEEE standard for extended double precision.

Variable width columns. Choice of several fixed pitch fonts.

formulas and templates that can be protected acainst accidental destruction.

Relational operators and IF, THEN, ELSE functions.

Date and calendar arithmetic.

Compound interest and annuity factor functions.

Block replication.

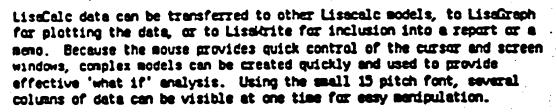
Missing Data indications.

Automatic calculation until convergence is reached.

Formulas can be printed along with values.

Printing in landscape mode with 15 pitch

font gives 132 columns on one page!

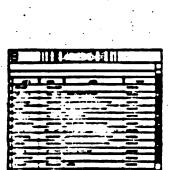


LisaList

A personal database that helps you create and maintain all types of lists. Preparing special reports from a master list is easy through a ... simple query by example instead of a special command language. By making specific columns visible, reports contain only the information needed.

Special field types can be specified to be; text, numeric, phone, zip, social security, date, time, or money. All data entered is automatically checked against the field type specified to minimize incorrect information. Since the data on a a database can often be very important, a file recovery mechanism can be used to rebuild a file lost due to power failures or faulty media.

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"008.PICT" 374 KB 2000-03-07 dpi: 72h x 72v pix: 2841h x 3923v

Source: David T Craig

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LiseProject

A visual project scheduling tool that will be to project managers, or anyone else who must deal with time and resource allocation, what Visicalc was to financial managers.

LisaProject uses the Lisa user interface to input graphic data in the form of a PERT chert to calculate the start and finish dates of up to 1000 inter-related tasks that comprise a project. In the same way that numerical models could be implemented quickly without programing knowledge and 'what if' games could be played on Visicale", complex projects can be created, updated and changes simulated in 'what if' sensition on LisaProject.

Critical paths are instantly shown by highlighted lines. The user can even zoom in or out to view the entire project or one small part. Milestones are supported and the scheduling algorithm takes into account holidays and parallel or redundant resources. The user can view the data alternatively as a resource chart or organized by task. Critical resources and float times are highlighted for easy identification and tracking.

LisaProject charts can be moved to LisaDraw for adding annotations or other customizing.

واجنبه

One of the most advanced text processors evailable on personal computers. Normal document editing is much easier with Lisa. The mouse allows inserting, deleting, and moving of text to be as easy as pointing.

Formatting page leyout is just as easy

with several fonts and type styles, fixed

and proportional space, bolding, italics,

underlining, sub and superscripting, left,

center, right and full justification, single, 1.5, double and triple line

spacing, single or multiline headers and footers, automatic page numbering,

automatic or manual page breaks, protection of text blocks from page breaks,

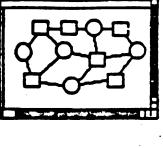
layout aids in inches or metric rulers, and up to eight split windows in

horizontal and vertical directions.

Search and replace is supported on any length string with single or global replacement, wild cord search, and you can choose to match or ignore upper/lower case.

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31200109



Apple Lisa Computer Info: Lisa Document # 031

LiseCraph

Complex data can be easily represented as a clear, concise chart for better communication. Data can be plotted as a bar, line, mixed bar and line, scatter, or pie chart. Data moved from LisaCalc is quickly plotted to show trends, and then the chart can be moved to LisaDraw to customize the drawing. For example, move a pie segment and add a drop shadow.

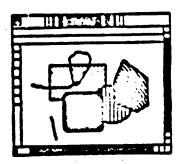


Formating all types of graphs is easy; it does not require a special graphics language. Data can be directly entered and the result is instantly plotted. Default titles are easily changed. All fonts are supported for typeset quality. Several chart sizes are evailable from quarter page to full page. Up to 2000 points can be plotted with up to eight y-values per x-value.

In addition to automatic plotting of data, exis legends are also scaled automatically. Legends can be manually scaled for unusual scales. Yiew windows of data and chart areas can be controlled for easy viewing of both depending on complexity.

LiseDras

A unique graphics presentation tool for everyone. Flow charts, technical diagrams, maps, pictures and symbols can be created quickly and easily. A picture IS worth a thousand words, and LiseDraw provides a very flexible tool to combine rectangles, lines, circles, curves, polygons and text to create anything one can imagine.



Just as a painter combines colors on a palette to apply to the canvas, LisaDian provides a wealth of line styles, fill patterns, shapes and text styles as well as layout aids like inch and metric rulers, measure indications, auto grid paper, and alignment commands to create presentation quality drawings without learning a special graphics language. Objects can be grouped, aligned, streched, stacked on on top of another, and duplicated all with the mass of pointing with the mouse.

Templates can be created with special symbols to speed standard or commonly used forms such as flow charts or schematic drawings.

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"010.PICT" 396 KB 2000-03-13 dpi: 72h x 72v pix: 2861h x 3807v

Source: David T Craig

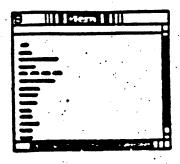
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Apple Lisa Computer Info: Lisa Document # 031

DATACCHM

LisaTerminal

Access to remote databases like Dow Jones". the Source", or a company's mainframe computers can be accomplished within the Lisa environment through LisaTerminal, a VT100 emulator. It can also operate as a simple 'dumb terminal' to any standard esynchronous RS-232c connection. With a DC Hayes Snartmoder, the user can call a number automatically and load data into a file to be transfered later, stored, or thrown may. Data can also be cut into or cut of a LisaTerminal window into Lisabite for inclusion in a report.



3270 Terainal

A standalone terminal emulator for the IBH world will be evailable first with a built-in bisynch driver. This will allow the largest installed base of IBM terminal equipment to be replaced with a Lisa!

NETWIK

Arolatet

Apple has developed a local erna network that will play a central role in allowing Lisa to penetrate the Office of the Future. It will allow Lisas and all other Apple mainframe products to be linked together for fast and efficient communication, resource sharing and common access to databases. It has the advantage of being very low cost while maintaining Apple quality, valuability pase of installation, and safety. This will be evallable late

SOFTWARE DEVELOPMENT

Listingkshop

The Lisa software development project required over 200 man-years of effort. Most of that effort was toward laying the foundation for the applications and that required extensions to Pascal and an sophisticated development environment, in fact, one of best evallable on a personal computer. All of the software for Lisa (except the very fast graphics routines) was developed in Pascal. A Lisa Toolkit will soon be everlable late '83 to take advantage of the softwere libraries created to make Lise possible.

The Pascal compiles directly to 68000 mechine code, and the editor has a Lisa style interface .

Other languages evailable are BASIC-PLUS, COBOL (full CSA High Level) with FORTHING, and Smalltalk (a research language) evallable is

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3120011

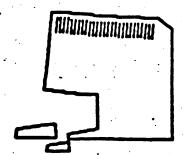
"011.PICT" 411 KB 2000-03-07 dpi: 72h x 72v pix: 2980h x 3826v

Source: David T Craig

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Lisa
With its attractive office styling, silent operation, and entular design, the Lisa system blands naturally

and modular design, the Lisa system blands naturally into any office environment. The system console, housing a 12° display, two disk drives, and system electronics, is compact enough to fit confortably on a desk, a typing return, or crederes. The separate keytoard and mouse allow any user to take advantage of the naturally harmonious relationship between eyes, hands, and the various system components.



The system console contains a 12° diagonal, high resolution, low-glare display screen. The use of a high efficiency prosphor to display black characters and graphics on a white background, provides the most enganned and pleasing image to the eye since there is no strong contrast change from the image we are used to seeing on paper. The screen is a bit-respect image of 364 lines of 720 dots each. This makes possible the high replution graphics, variable font sizes, proportional space text, and the visual fidelity with the print capability. Contrast is software controlled to provide a long prosphor life.

File storage is provided by two high density mini-floppy style disk drives and a Profile 5 HB hard disk subsystem. The Profile can be used to store all system software, applications and user documents. The internal floppy disk storage capacity is an industry high of 860,000 characters (formatted) each. Consistent with the overall philosophy of a truly easy to use system, the diskettes are automatically loaded and ejected under software control in order to ensure directories are consistent before release.

Processing is accomplished by the highly acclaired 32-bit MC68000. The system includes a full regarder of memory which is controlled by a very flexible memory memory memory unit. Built-in diagnostics establish a high confidence level at start-up time and the internal modularity provide easy serviceability.

All input/output functions are handled by three microprocessors operating on the MCSSCOD shared bus. Serial communication expanilities are provided through two RS-ZZCC ports accessible on the rear panel. One port has full modes depoblility including auto-dial, auto-answer. A built-in parallel port is used to interface directly to the Profile hard disk.

The keyboard has been designed to be confortable and efficient. In addition to the standard typewriter layout, a numeric keypod is provided for fast data entry. All 73 Keys can be software programmed for special functions or to provide special characters or symbols. The electronics have n-key rollover for the speed fast typists require. Help cards are attached to the bottom (Attachment 7)

The on/off switch is even software controlled to prevent the user from turning off the system accidentally before the documents were properly stored away. This is truly user friendly; it to protect the users from themselves!

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3120011

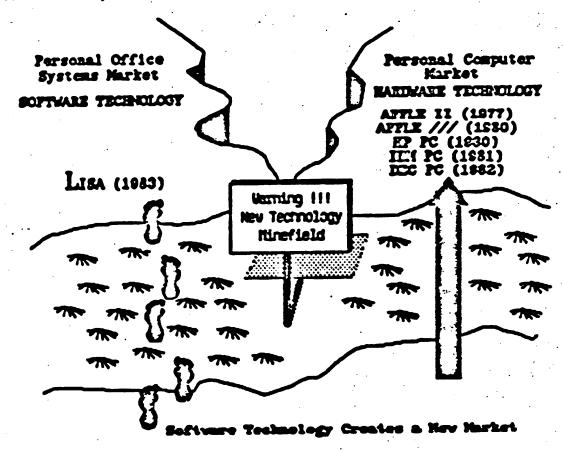
"012.PICT" 479 KB 2000-03-13 dpi: 72h x 72v pix: 2785h x 3869v

Source: David T Craig

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THE LISA CONCEPT

In order to understand what makes Lisa different from other personal computers, we need to understand what Apple did back in 1976. The personal computer market was in its infancy and the Apple II was a very clever, relatively inexpensive computer with lots of slots to use the system for enything. And that is exactly what happened. Add-on producers developed everything under the sun for the Apple II, and software was developed first for the Apple II and then maybe for others. This gave Apple a powerful leverage point.



With the introduction of 'Big Blue' and other corporate heavyveights, the PC market has grown considerably. However, for Apple to continue growing at the rate we are accustomed to, we decided to go after the relatively untapped market of the information professional through personal office systems.

Although data processing has been around for decades and display word processors have been with us since 1971, the total installed base is but a few hundred thousand. If Apple were to be successful where others have failed, we needed to develop a new technology in software to create that new market.

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"013.PICT" 320 KB 2000-03-13 dpi: 72h x 72v pix: 2711h x 3902v

Source: David T Craig

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The Lisa Pyradid

As vith all new products, it is difficult to explain why it is better than what existed before. Lise is no different. In fact, we have found in numerous sneek previews Lise is very difficult to describe. Unless one sees the system, it is almost impossible to appreciate what Lise represents. One tool we have found effective in organizing the many issues is what we call the Lise Pyramid. The next figure is a diagram that should be referred to often in this discussion.

The top part of the pyramid represents the solutions required by the target customer in an office, the information professional. The generic applications are all tools union can be used by almost anyone in an office. They are not carried vertical applications geared for a specific kind of worker like an insurance agent. They are the extension of the idea benind the original visicals". It was a 'mental bicycle' which extended the expedilities of the user. Visicals" was the first corputer tool to achieve even remotely "mess ranket' appeal arong remagers and professionals. It is no longer possible for a corpany such as Apple to introduce a corputer with no softwire and be successful. Even 18H with all the resources of the largest computer company in the world had to use a 'standard' operating system to take advantage of the second largest base of software. Thus, it was imperative that at introduction we supply a full complement of TOOLS. In accrition it is important to encourage the development of vertical market applications by third party vendors. That requires us to open up the system as was done on the Apple II and even to provice a Lisatoolkit for those vendors who will be able to leverage our development effort and use our user interface subroutines. In other words, we will be providing the equivalent of 'slots' in a software technology instead of slots that helped the Apple II. In socition, networks and catacorn are necessary in order to provide access to other detabases and to facilitate the communication needs of the office professional.

The relative layer of the pyrardd represents the technology that had to be created in order to produce a truly 'easy to use' system. The original prototype of this kind of technology was created within Xerox at the Palo Alto Research Center (PARC). This is where the bulk of the more than 200 man-year effort went in developing Lisa. Hany of the refinements and contributions of Apple are in the areas of Integration and a User Interface that is easy to learn. The one button mouse and the software to allow that was key to that accompliament. The moment the user had to think about which button to push, the system is no longer intuitive. In accition, the user no longer has to remember comments that require conscious thought, like when we drive to work the sere way every day, it becomes intuitive.

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The third cornerstone is Visual Fidelity, or what you see on the screen is exactly what you get when printed. Even though it was fairly well understood how to make that happen, what is unusual about Lisa is the exceptional quality of the Dot matrix printer for less than \$695, and being sole to provide graphics from a baisy Wheel Printer for true letter quality at \$2195!

The bottom layer is the foundation for the layers above. The major design issues were all dictated by the needs of the software rather than the traditional way in which the hardware is designed and than handed to the software engineers for software conversion. The key points are that the MCSSOOD was the only processor that would allow us to have a strong enough foundation for the future to make this kind of investment. It is a very advanced architecture and is well suited as an applications engine. The Operating System needed to be a multi-tasking to allow multiple folders on the screen to allow for integration. The Graphics House Technology is key to making the user interface possible.

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"016.PICT" 279 KB 2000-03-07 dpi: 72h x 72v pix: 3014h x 4076v

Source: David T Craig

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LisaCalc — for fast, powerful analysis

Sales Reverue by Quarter (\$,000)

Lisa Solumons



What If?

Product	Q1	CX.
\$0 32	31	34
Can Foods	52	57
Vegtables	25	28
Cairy Foods	20	25
Frozen Foods	13	16
Megazines	12	9
Total Revenue	\$153	\$169

Lisa Techology

INTEGRATION

Cut & Paste data to LisaGraph Cut & Paste data to Lisawrite



USER INTERFACE

Use Mouse to move to any part of the model Generate formulas without touching the keyboard

VISUAL FIDELITY

Customize formats and protection for each cell One step printing

Lisa Foundation



GRAPHICS MOUSE TECHNOLOGY

State-of-the-art graphics printing
Multiple typestyles for presentation-quality

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3120011

"017.PICT" 261 KB 2000-03-13 dpi: 72h x 72v pix: 2901h x 3999v

Source: David T Craig

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LisaCalc — to simplify complex analysis

	1 District						
t	# G Cells: Value:						
t	M Formula:						
	l A		8				
1		Les	t Querter	7			
2				12			
3	Number of Units Sold		700				
4	Avg Sale Price per Un	it 3	200				
5	Avg Cost per Unit	5	100				
6	·						
7	Sales Revenue	5	140,000	1			
8	Cost of Goods Sold	5	70,000				
9	Operating Expenses	5	30,000	O			
10	FRUFIT	\$	40,000	I			
(2)			N C	南			

- Large capacity, Model size is 255 x 255
- Easier Model Building
- Include LisaCalc data in reports
- Precision and accurracy (IEEE floating point standard)
- Quality and easy printing

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31200

"018.PICT" 292 KB 2000-03-13 dpi: 72h x 72v pix: 2863h x 3931v

Source: David T Craig

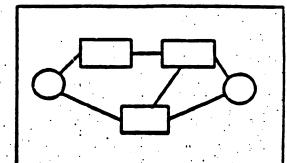
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Apple Lisa Computer Info: Lisa Document # 031

LisaProject — for planning and tracking projects

Lisa Solumors





Lisa Techology

INTEGRATION

Out & Passe data to Lisabraw



USER INTERFACE

Use Mouse to move to any part of the model Create tasks and milestones by just drawing with the Mouse

VISUAL FIDELITY
Charts graphical display project status
One step printing

Lisa Foundation



GRAPHICS MOUSE TECHNOLOGY
State-of-tre-art graphics printing
Multiple typestyles for presentation-quality

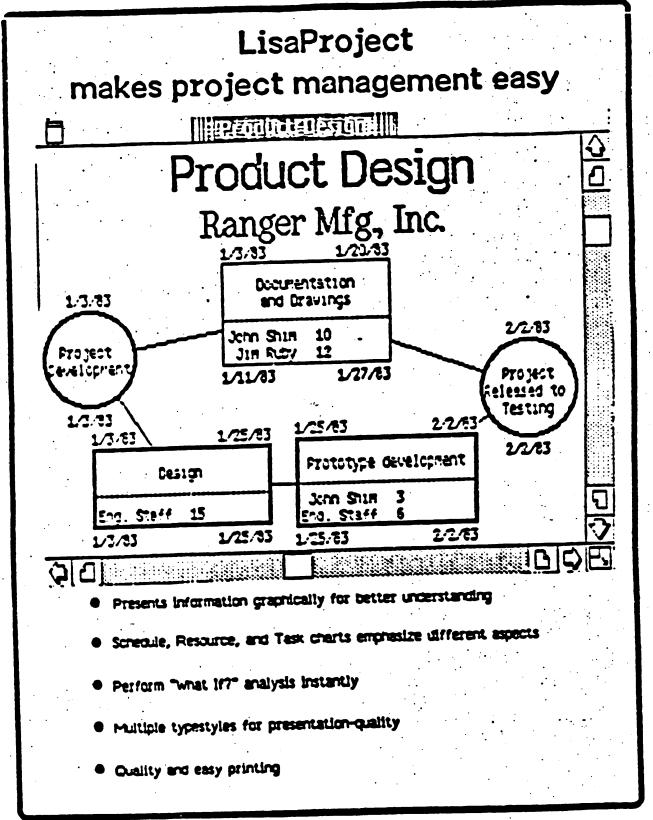
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"019.PICT" 243 KB 2000-03-13 dpi: 72h x 72v pix: 2817h x 3992v

Source: David T Craig

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3120

"020.PICT" 327 KB 2000-03-13 dpi: 72h x 72v pix: 2871h x 3866v

Source: David T Craig

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LisaList — for managing information

Steff Reviews

Lisa Solumos



Managing Valuable

Employee Name	Dept	Last review
Eastwood, Dan	31	Feb 15, 82
Ellers, Wayne	52	Feb 20, 82
Goodman, John	25	Feb 1, 82
Gregory, Fred	20	Jan 14, 82
Hillman, Liz	13	Jan 24, 82
Madison, Mary	12	Dec 15, 82
Michols, Jack	45	Dec 18, 82

Lisa Techology

INTEGRATION

Same editing commands as LisaCald Cut & Paste data to LisaWrite



USER INTERFACE

Use Mouse and Menus to create and modify lists Relational, table oriented interface

VISUAL FIDELITY

Automatic Formatting based on 1 of 8 datatypes
One step printing

Lisa Foundation



GRAPHICS MOUSE TECHNOLOGY
State-of-the-ert printing
Multiple typestyles for presentation-quality

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3120012

"021.PICT" 268 KB 2000-03-13 dpi: 72h x 72v pix: 2925h x 3873v

Source: David T Craig

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LisaList — to simplify the management of complex information

		·		K
Last Home	Position	32'27y	Social Starty !	Ī
Alexander	34	\$29,600.00	012-45-8765	1
Antrevs	23 ·	\$52,800.00	357-53-5475	ŀ
Attinson	u	\$27,500.00	695-69-4210	ŀ
Averill	n	\$27,500.00	193-12-0312	
eaterek	n	\$27,500.00	695-63-4210	
Esker	38	\$12,800.00	357-53-5475	
Eanks	37	\$19,500.00	655-32-0145	
Earon	38	\$12,800.00	357-53-5475	
Saron	38	\$12,800.00	787-95-6404	ī
ariyacre .	29	\$33,540.00	455-78-7142	Ľ
Barrymore	28	\$33,520.00	236-72-2031	K

- Add, remove or hide columns and change column order and width at anytime
- Search and Sort on any combination of columns
- 8 datatypes such as Date, or Time for automatic formatting and checking
- Up to 100 columns/list and approximately 1000 characters/row
- Maximum size list size is approximately 600K;
 (e.g., 12000 rows of 50 characters each or 6000 rows of 100 characters each)

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"022.PICT" 341 KB 2000-03-13 dpi: 72h x 72v pix: 2853h x 3956v

Source: David T Craig

Page 0023 of 0056

LisaWrite — for fast, quality documents

Lisa Soumore



MEMORANDUM

10: Indical later America FEG: 1982 later America E: 1982 later America

Excellent year! Senertic sales beet forecast by 12%. As the figures below show, our lote spring compaign was a great success.

Region 08. 62 65 94 East 254 265 288 338 Serth 69 99 123 165 Next 156 159 133 139

Lisa Techology

INTEGRATION

Cut & Peste whole models from LisaCalc Cut & Peste between memos, reports



USER INTERFACE

Use mouse to move, edd, or delete text quickly
All formatting commends in menus - nothing
to remember

VISIAL FRELITY

Ward-vrap, typestyles, page breaks Print once - no more guessing

Lisa Foucation



GRAPHICS MOUSE TECHNOLOGY

State-of-the-est printing
Multiple fonts for hearings, subreadings, etc.
Special characters for foreign languages and
statistical applications

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3120012;

"023.PICT" 261 KB 2000-03-13 dpi: 72h x 72v pix: 2900h x 3966v

Source: David T Craig

Page 0024 of 0056

LisaWrite — to prepare quality memos and reports

Nemo Sample III MEMORANDUM

TQ

Regional Sales Managers

FROM

David Clark

1982 Sales Results RE

Excellent year! Domestic sales were 9% above quota - and it was quota at that. As the figures below indicate, our late spring campa success, primarily due to your extraordinary coordination efforts. H

(Thousands)	Q1	QZ	Q3	94
East South	\$ 2,460	\$ 2,497 832	\$ 2,534 845	\$ 2,572
Central	1,918	1,947	1,976	2,006

- Full editing capabilities on characters, words, paragraphs, and more
- incredible formatting flexibility margins, tabs, justification, etc.
- Professional quality with proportional spacing and large typestyles
- Cut & Paste tables from LisaCalc directly into reports
- Global search and replace capabilities

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"024.PICT" 292 KB 2000-03-13 dpi: 72h x 72v pix: 2932h x 4081v

Source: David T Craig

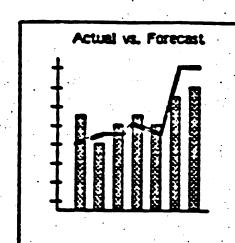
Page 0025 of 0056

Apple Lisa Computer Info: Lisa Document # 031

LisaGraph — for fast, quality plotting

Lisa Soumore





Lisa Techology

INTEGRATION

Cut & Paste data from LisaCalc

Cut & Paste graph to LisaDraw



User Interface
Change graph type via mouse and menus
Graph and data viewed and edited side-by-side

VISUAL FIDELITY
Titles where you see them
Graph size same on paper and screen

Lisa Foundation



GRAPHICS MOUSE TECHNOLOGY
State-of-the-ert graphics printing
Multiple fonts for presentation-quality

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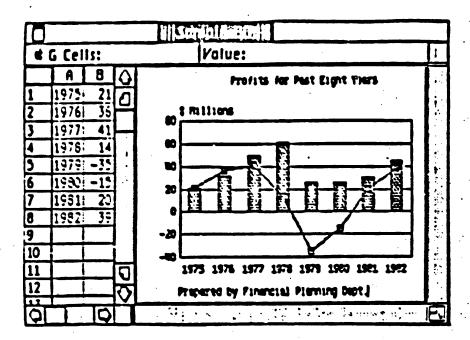
3120012

"025.PICT" 249 KB 2000-03-13 dpi: 72h x 72v pix: 2912h x 3885v

Source: David T Craig

Page 0026 of 0056

LisaGraph — to simplify complex data



- Bar, Line, Scatter, Pie, and Mixed Bar & Line Charts
- Not data from LisaCale quickly and easily (5 staps)
- Instant plotting with both data and graph visible
- Out & pasts your graph to Lisabraw for total customization
- Large typestyles for titles to give a professional appearance

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"026.PICT" 285 KB 2000-03-13 dpi: 72h x 72v pix: 2934h x 4112v

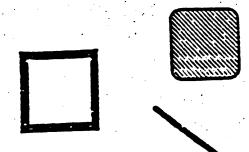
Source: David T Craig

Page 0027 of 0056

LisaDraw — for any kind of illustration

Lisa Soutions







Lisa Translow INTEGRATION

Cut & Paste charts from LisaGraph, LisaFroject

Same text editing interface as LisaWrite



USER INTERFACE
Use mouse to draw everything
Drawing side to make everyone an expert!

VISUAL FIDELITY

Dot for dot equality between screen and paper

Lisa Foundation



GRAPHICS MOUSE TECHNOLOGY
Lisabraw is not possible without GMT
Multiple fonts for presentation-quality
State-of-the-art graphics printing

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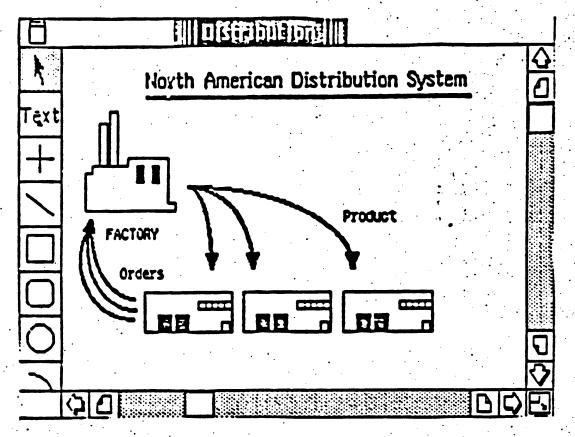
3120012

"027.PICT" 252 KB 2000-03-13 dpi: 72h x 72v pix: 2959h x 4026\

Source: David T Craig

Page 0028 of 0056

LisaDraw — when a picture is worth a 1000 words



- Draw lines, rectangles, circles, freehend, arcs, polygons
- East graphics as easily as text move it, stretch it, shape it
- Professional quality text as well for mixed text and grachics
- High-resolution printing for use in reports and presentations
- Rulers, grics, and other aids to get it perfect every time

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"028.PICT" 313 KB 2000-03-13 dpi: 72h x 72v pix: 2949h x 4030v

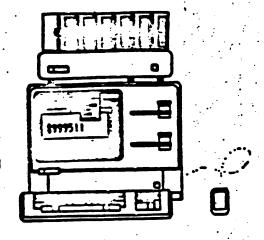
Source: David T Craig

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2.2 Pricing and Profits

et first release will be the Lisa Office System et first release will be the Lisa Office System. Bundle consisting of six integrated applications running on a powerful hardware configuration of a full 1 MB Lisa and a Profile SMB hard disk.

To achieve the strategic objective of establishing Lisa as the system of choice in the office before competition responds and to maximize profits, the Lisa Office System's suggested retail price will be set aggresively at \$9995.



From a strategic perspective the appresive posture enables Lisa to compete fevorably against lower price-performance systems such as the ISM PC with 1-2-3 or VISI-ON. Accitionally, since POSD has decided not to offer a 51208 hardware box to create a buy-in price point, trade-up sales to the Lisa Office System are ruled out. The price of \$9995 is required, therefore, to position Lisa as an attractive entry in the price sensitive office markets.

The price of \$9995 reets financial as well as strategic objectives. A marketing research study conducted by POSD found deraid for Lisa arong areas preview participants to be extravely price sensitive. Over the price range considered, a 1% occrease in price would stimulate deraid by 2.7%. It is logical to conclude that a high degree of price sensitivity arong steak participants implies an equal or even higher degree of price sensitivity arong Lisa's broad based target market.

In conjunction with the market research study, we conducted an analysis of the fixed-variable nature of both divisional and corporate operating costs. It was found that in fiscal year 1963, 73% of division and corporate operating costs are fixed.

POSD COST STRUCTURE OPERATING EXPENSE SUMMARY Q3 & Q4 FY 83

ושטיא עבטין עבוראונונצ	\$52.0 ILLE		
	TOTAL	FIXED (\$1)	YARIAGLE (SI)
oner as	.22	(765)	.22
CORPORATE OPERATING EXPENSES	16.88	11.80 (100)	5.08 (201)
POSD OPERATING EXPENSES	11.92	9.51 (734)	2.41
TOTAL EXPENSES	29.62	21.31	7.71

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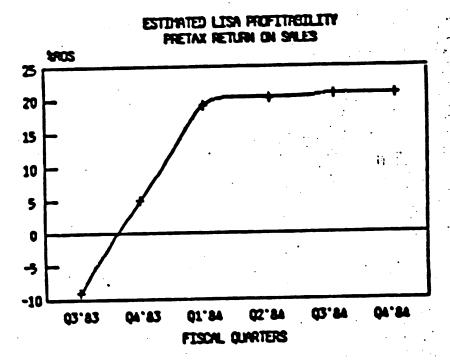
212001

25

"029.PICT" 376 KB 2000-03-13 dpi: 72h x 72v pix: 2746h x 3865v

The corplication of price sensitive described and a high proportion of fixed costs, argues convincingly for appressive pricing. The price of assess, just below the psychological threshold price point of \$10,000, maximizes POSD's return on investment. A higher price would result in a directic decline in demand, thus raising unit costs and lovering profitability. A lover price, on the other hand, would not stimulate demand sufficiently to offset the lover price realization.

As the following chart illustrates, a price of \$9995 will yield a pretex return on sales of 20% by fiscal year 1984. Return on sales performance improves steadily after the first six months of shipment as the Lisa Office System with an external Profile is replaced by the Lisa "1.5" with an integral windrester disk.



The improvements in pretax MCS can also be attributed to a steady decline in standard costs as a function of both volume and time as well as a spreading of operating costs over a growing volume of sales.

Attachment & includes costs, sales mix assumptions and discounts by channel.

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"030.PICT" 241 KB 2000-03-13 dpi: 72h x 72v pix: 2402h x 3862v

Source: David T Craig

2.3 Third Party Software Plan

Lisa's potential as a target machine for Value Added Resellers (VARs), 3rd Party Software Houses, and Volume End Users (VEUs) is transmous. Each of opportunities as large as the office market, as described in the POS WAR Business Plan (3/19/82).

Prior to Lisa's introduction, PCS will have a limited number of rechines and support capabilities for outside organizations. We will use these resources to "seed" rechines in strategically important areas. The extent of this program will be decided after POS determines what we can offer outside firms in the way of development environments (nonitor, Lisa OS, UNIX, N/PH) as well as Lisa software components (Acolication Window, OEH Tool Kit).

The distinction between VARS, 3rd Party Software, and VEUs is an important one. VARS are those organizations who buy machines from Apple, and product value in software and/or hardware, and then resell the machines. Typically they actives a market that complements our markets. Prime VAR application areas for Lisa include Engineering Workstations, CAD/CARL Programmer Workstations, Typesetting Systems, Decision Support Systems, and Small Business Systems.

Typically they either sell their product to Apple who in turn markets it, or they sell their product directly into existing channels. Early potential seeds in this area would be for key system software (BASIC, CTECL, Datacont, Unix, N/Ph) or for key applications to complement our product line (FERT, Small Business Software, relational Data Bases, Electronic Mail, advanced financial packages).

VEUs are customers uno both buy in substantial quantity and uno add their our software for internal use. Examples are banks uno write software for branch offices, accounting firms uno write their our musiting software, and engineering companies that write their internal applications.

In each of these areas, the key will be leverage. Given limited resources, we will pick those situations which will provide the greatest payoff in the long term.

27

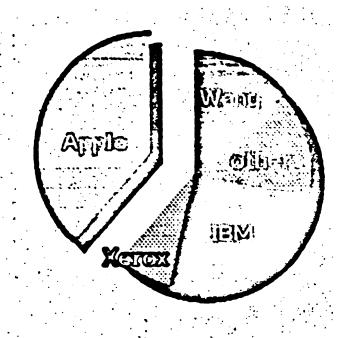
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"031.PICT" 341 KB 2000-03-13 dpi: 72h x 72v pix: 2392h x 3625v

3. Marketing Strategy

3.1 Market Segment Analysis

In the U.S. alone, there are than A million secretaries. 11 million professionals. The productivity of these · individuals has become a rejor ·concern: \$300 billion was scent in 1950 on white collar vages and benefits in the U.S. alone. As "the Economist" described in its December 27, 1960 issue: "Booz Allen (the noted rensparent consulting firm) believes office productivity in America probably reached its peak in 1978 and has been falling since." Apple has a me for accordantly to increase the effectiveness of Appical office writers through personal office systems.



Although data processing has been around for decades and display with processors have been with us since 1971. The market for personal office systems is relatively untapped. The total installed base of standalone word processors in the U.S. is but a few hundred thousand, and the Yankee Group research firm claims that in the U.S. there is only one computer terminal for every 48 employees (in Europe 15 is less than one per 100).

The so-called "Office of the Future" firms have also succeeded in alienating a large number of office workers. The National Association of Office Workers' report, "Name Against Time: Automation of the Office" (April 1979) claimed that office automation (i.e., UP) would turn offices into assembly lines--leading to degrated, deskilled, and devalued jobs, unemployment, and occupational stress and danger. The report claimed that IBN and other vendors encourage customers to rearrange their offices, instituting typing pools and other "importions," primarily because the equipment has been considered too expensive for a typical secretary. As "the Economist" reports:

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"032.PICT" 370 KB 2000-03-13 dpi: 72h x 72v pix: 2686h x 3828v

There of the electronic office equipment regulacturers has yet succeeded in reking the devices sufficiently 'friendly' so that typical office workers can use them easily and well . . . Nuch of the electronic office maninery coming on the market requires users to be familiar with special codes and certain computer techniques . . . Though great strides have inseed been raps to courn out more paper, few equipment suppliers have begun to think about trying to improve the quality of the information printed on it . . .

To date, vendors who bill therselves as selling "office automation" or "office systems" are quickly buried by the excessive demands and expectations of fortune 500 firms, who are clearly the Venus Flytraps of the potential customer base. No single vendor is even close to offering the total office system that the large firms have come to believe they demand. Hearwhile, by virtue of NOT being billed as an "office system," the personal computer can be seen as a natural and beneficial experience for the individual professional.

The NCC marketing strategy has always called for a mass marketing approach to a broad office worker audience.

However, while the strategy calls for a very "horizontal sell" to the widest audience possible, certain filters are workable in qualifying prospects as good leads.

It is estimated that there are 32 million office workers in the United States:

- 1 million typists
- A million secretaries
- 11 million managers/supervisors
- 16 million professional/technical

The worldwide numbers are at least double those of the U.S., although there is a relatively higher proportion of small firms.

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Lisa is positioned as a solution for "all" office workers, not just one segment such as secretaries or professionals. It is expected that all individuals in a business unit, such as a department, will need the same capabilities to share files, etc. Lisa is simple enough so that "first time" computer users are not intimidated, but powerful enough so that a computer literate individual ones not feel harpered. Virtually all users may become sophisticated at least on some applications rapidly.

An important strategy element for us will be selling to those individual managers, professionals, and secretaries in an organization who are perceived as the leaders (in either personal power or position). As these individuals promote Lisa internally, others will surely demand the product. This phenomenon is referred to as "cording out of the woodwork" syndrome by the Office Autoration manager at Lincoln National Life Insurance Corpany. Once word spreads should an exciting product, people everywhere begin demanding one and looking for means to justify its acquisition. This phenomenon is becoming routine for Apple IIs and ///s in businesses, and Lisa should also benefit from it.

As soon as small business software is available, Lisa is perfectly positioned to be a major force in the small business market. Peasons for this power include our bottom-up sales cominance, attractiveness as a standalone system (and not as part of a large one), and the shorter selling cycles in the small films.

All indications point to Lisa's being perfectly positioned for the office market: speakers in seminars, writers in the trade press. and comporate individuals who have seen Lisa specify that a good system must have word processing, graphics, visicale-type expabilities, and data bases. And they must be integrated! Only Lisa currently fulfills these requirements.

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Lisa Target Market

Any Knowledge Worker or Support

Staff Member who considers Anaylsis
or Information Management an integral

part of his/her job.

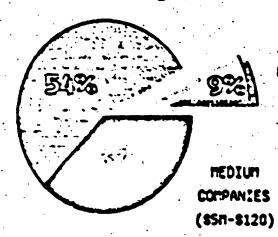
The Office Environment may be in a large company, a small company, or a home.

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Lisa Market Size (U.S.)

Number of Knowledge Workers

Small Companies (<\$5m)



32.4 Million Managers and Professionals

Anticipated Distribution of Lisa Sales (12 Months)

STIALL
COTFANIES
((SSN))

TEDIUM
COTFANIES
(SSN-\$120)

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"036.PICT" 172 KB 2000-03-13 dpi: 72h x 72v pix: 1994h x 3639v

Source: David T Craig Page 0037 of 0056

3.2 Lisa Positioning

Apple Corputer, the recognized leader in the personal corputer industry, has pionecred quality, immovative, efforceole, and usable corputers for the individual. In the office, the expressis has been on improving the way individual professionals make decisions, analyze and remage information, and communicate with others more effectively.

Apple's nevest personal computer for the office, Lisa, is a revolutionary management decision support tool. State-of-tre-art hardware and revolutionary software, which represents a \$50% and 200 person-year investment, offer an unparalled user interface and integration of functional management applications. Lisa Technology', built on extensive use of graphica, consistent user interface, and a pointing device (called a "mouse") enulates the way an individual works in the office. The integration of data between applications such as word processing, data management, spreadsheet, graphics, project scheduling, communications, and additional tools that will be supplied by Apple and independent software vendors set the standard for new office systems. Lisa is the first in a new generation of personal computers from Apple for

The Apple IIe, with its new features and capabilities, enhances the Apple II's position as the most cost-effective general purpose personal computer in the office.

The Apple ///, the mid-range of Apple's product line, is an extension of the Apple IIe in expecity, expandability, color graphics, and development tools. The Apple /// is particularly suited for small business applications.

Data comunications and local area networks are fundamental for individuals in the office to create, share, and use information. Apple will introduce data comunication products and Applement, a local area network product, during 1983.

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3.3 Introduction Plan

Creating the Personal Office System market poses some major challenges for Apple. An overview of the introduction strategy for this market is provious below, followed by more details in the following sections.

ANOUNCE ENT/PUBLIC RELATIONS

A concurrent amouncement of Lisa and IIe will be made at the Stockholder's Meeting on January 19, 1983. Shipments of Lisa will begin in late spring 1983. Lisa will be Apple's first major new product line amouncement since the Apple ///, so we want to make a big splash with public relations and advertising.

Since December 1982, the most prestigious trade and business publications have visited POS Division in preparation for articles/cover stories. Covers are played for Byte, Personal Deputing, Popular Deputing and Computer Dealer, and possibly one or more of the major business publications. Hajor industry consultants were brought in for Sneaks in December; others will be given priority at the ORC Trade Show in Philadephia in February. Sepond Report will do an entire special issue in February on Lisa.

The Apple amountment ad, "Evolution/Revolution" will run in the Well Street Journal 1/21 and 1/24.

SALES CHANNELS

At amounterent, two charmels of distribution will sell Lisa- a subset of Apple's existing dealer base and Apple National Account Execs.

Personal Office System Dealer

Sneaks for approximately 150 of the top Apple dealers were held in Cupertino in November. From This group, approximately 135 dealers (to be known as Personal Office System Dealers) will be selected as "Lisa Information Center" dealers to be in place at annuncement time.

Apple is issuing a new Dealer Master Agreement around March 1. 1983, to be signed by April 1; the Lisa product line will be an accendum to this contract. As soon as the "Information Center" dealers sign the master agreement with the Lisa accendum, they will become authorized Personal Office System Dealers. Each of these dealers must also submit a business plan to the regional managers by January 21. 1983.

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"038.PICT" 333 KB 2000-03-13 dpi: 72h x 72v pix: 2332h x 3829v

National Account Decs

Approximately 60 National Account Executives will be in place at introduction; they will remost directly to the Fortune 1000 accounts.

SPEAK PREVIEWS

Approximately 70 large companies, 15 consultants, and members of the key trace and business press have seen Snock previews of Lisa. A special room was built in the POS Division to accomposite these presentations, and the materials used in these presentations form the basis of the presentation slices being provided to the field. The Sneaks proved extremely successful and provided valuable feedback from customers with regard to the product itself, position, service and support. See Attachment K for a list of all Sneak attachmens.

SEMINARS

Teams from POS/Sales will visit 16 cities in the U.S. and 3 in Canada march 7 through April 7 to present Lisa seminars. The purpose of this program is to introduce Lisa to as many accounts as possible in this timetrame and to provide instruction to the field on how to give a Lisa seminar.

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"039.PICT" 207 KB 2000-03-13 dpi: 72h x 72v pix: 2287h x 3737v

3.4 MARETING COTUNICATIONS

SHEAK PREVIEWS

Sneak Previews addressed the need to communicate the Lisa strategy to selected larger customers well before introduction. The Sneaks began in late may and will continue until announcement on January 19. After that, headquarters Sales will take over comporate visits. Approximately 70 companies attended the previews; sometimes they were scheduled for every day in a week. In addition, the presentation skills of the members of the POS Division were honcd, and the materials developed for these presentations will be sent to the field via sildes for their own presentations to accounts/seminars.

PURLIC RELATIONS

Public Relations will menage the release of information in order to properly position Lisa. Two groups of leading industry consultants were given Sneak previews; these individuals are influential in providing information to trace and business publications, as well as speaking at conferences and making product recommensations to the marketplace.

The following institutels attended Sneeks:

Consultants

John Hurphy, Advanced Office Concepts (Any Monl's corpany)
Esther Dyson, Rosen Research
Joe Enardt, Seycold Reports
Jonathan Seycold, Seycold Reports
Richard Dalton, Open Systems
Portia Isaacson, Future Corputing
Ben Wiseren and Kim Lim, Dataquest
Ben Rosen, Rosen Reports
Molly Unton, International Data Corporation

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"040.PICT" 271 KB 2000-03-13 dpi: 72h x 72v pix: 2293h x 3706v

Source: David T Craig

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Pallications

Electronics Hagazine
Corputer Dealer*
Wall Street Journal
Infovorld
Nevsveek
Business Week
Byts
Popular Corputing
Personal Corputing
Chicago Tribune
Peninsula Tires Tribune
San Francisco Examiner

In addition, Steve Jobs, John Couch, and Paul Dali will make a press tour January 10 & 11 to visit Forces, Fortune, Wall Street Journal, New York Tires, Boston Globe, Business Week, Newsweek and Time for articles to break shortly after amountement.

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"041.PICT" 137 KB 2000-03-13 dpi: 72h x 72v pix: 2317h x 3723v

HEROHMOISING

The challenge of merchandising will be to "put Lisa's sizzle on paper." And on video. And on demo.

The merchandising must, like Lisa, be integrated. Brochures, Data Spects, in-store promotions, software packaging and other collateral material will appear as a family (for example, like Visicoup material). Like Lisa, the materials will be graphic and experiential.

No only will the "look" be integrated, but also the ressage. To expressize the Lisa positioning, the ressage will focus on human potential, not productivity or office automation.

Demos and video will bring the experience of Lisa closer to the user. To that end, demos will not be limited to simply viewing: they will allow the user to experience Lisa by using it to produce results.

ADVERTISING

Lisa advertising will be limited to short-lead time media (newspaper and radio) at announcement. PR is expected to carry much of the early marketing communications load. Major advertising will start in theren to coincide with ship date. Major advertising would also be used to promote the Roadshow.

The advertising ressage will focus on "human potential," through better decisions, higher work quality, and better communication of information.

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"042.PICT" 218 KB 2000-03-13 dpi: 72h x 72v pix: 2295h x 3660v

SEMINARS

Professional seminars are expected to be the major vehicle for presenting Lisa to accounts. In order to introduce Lisa quickly after introduction to major accounts, as well as train the field in giving professional seminars, POS and Sales will send teams to 16 U.S. cities and 3 Canadian cities in March to present the first round of Lisa seminars. (See attachments for a list of the cities.) Each team will be in each city two days:

Day 1

- 8 10 a.m. Seminar to local Personal Office System dealers.

 (see attaicment for agence). This seminar will "snow by example" how to give a Lisa presentation. It will be exactly the same presentation as given to Apple Metional Account Rep customers later in the day.
- 1 3 p.m. Seminar to Apple National Account Rep customers.
- 3:30 5:30 Seriner to Apple Mational Account Rep customers.

DBY Z

- 9 12 Visit National Account Rep customer accounts
- 1 5 Visit local Personal Office System Gealers

A comprehensive seminar package will be sent to the field in early march.

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TRACE SHOWS

Both trace shows and seminars are believed to be the ROST effective method of introducing Lisa to customers. Trace shows should provide greater opportunity to USE Lisa. In addition to the booth space, a suite will also be obtained for presentations to selected customers attending the show(s). The first show Lisa will appear is a small regional show, Office Automation Expo. in San Francisco. The first rajor show after annuncement is the AFIPS Office Automation Show in Philadelphia. 50 hands-on machines will be set up at the Hilton Hotel (next to the Convention Center).

1/25/82 Infosystems Office Automation Expo, San Francisco 2/21/83 AFIPS Office Automation Conference, Philadelphia 5/16/83 NCC, Amerika 6/83 IMP Syntopicon, San Francisco

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"044.PICT" 182 KB 2000-03-13 dpi: 72h x 72v pix: 2307h x 3666v

3.5 Corpetitive Aralysis

Stiff corpetition will come from IET, Merox, Mang, Dataroint, and DEC. These firms all have (or will have) versatile workstation products that can be produced in high wolures. In addition they all draw upon substantial sales, service, and financial resources.

with the IBM 5150, a solid personal computer, IBM is rapidly moving to secure the personal computing business of its business clientale. However, as Ben Rosen and others have pointed out, the 5150 offers comparatively little in the way of innovation. Nevertheless, even though it cannot compare to Lisa technically, it is selling extremely well for noward without a strong competitive response from Apple until Lisa occuts. IBM is clearly attempting to lock-up comporate customers who want personal computing. IBM has had the resources to do Lisa-ish projects fifty times over. Their resources to do Lisa-ish projects fifty times over. Their resources to do Lisa-ish projects fifty times over. Their resources a product capability edge throughout most of 1984.

xerox has a strong brand trage in the office market. excellent relations with Fortune 500-sized firms, 8000 salescerple, a large field sales organization, and an image of technical leadership during to its frontrurning Star and Ethernet annuncements. In accition, Mercx is beginning to take Apple ress-on by selling the new 820 through computer stores. However, the 820 has done poorly and now appears to be losing dealer "share of stind." In addition, Ethernet's survivability as a standard has repeatedly been challenged, and the company to date has only 700 sites where customers have installed Stars. A final mail in the coffin is the high price of a useful Xerox network, since the products do not work well as stancalone systems like Lisa: the average system price of the 70 Ster installations is \$270,000 Since xerox lacks a low-cost, Star-like machine that is genuinely standalone, Star should help educate the market and contribute to Lisa sales as customers recognize that Lise is the effordable approach.

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"045.PICT" 312 KB 2000-03-13 dpi: 72h x 72v pix: 1943h x 3703v

In addition to Wang, Datapoint, DEC, and the other major office workstation vendors, a plethora of 16-bit CPU, bitrop display office workstation products have leapt into the fray in the last year. The battle is shaping up between 8036-family rechines and those using the notorola mc63000; Convergent Technologies (8036) has already established the early lead among OEM suppliers by signing agreements with Savin. Roll. Thorson-CSF, Burroughs, and MLR. IDM has helped to legitimize Convergent by choosing the 8036 and 8038 for the displaywriter and 5150.

Time is of the essence. The office workstation market right now is somewhat like the personal computer ranket in 1977: poised for tremenous grown that Apple can capture and gain a strong footbold within - if we can move quickly to introduce our product into the market while the window is open.

Complete competitive analysis by company, are included as Attachment D.

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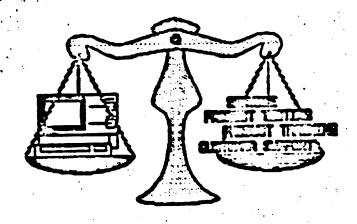
42

"046.PICT" 173 KB 2000-03-13 dpi: 72h x 72v pix: 1910h x 3579v

4 Support Strategy

4.1 Product Testing

Product testing verifies that the product meets specifications: functionality, reliability, ease of use. In addition, it verifies that the marketing support system-manuals, hotline and service--is also functional and reliable. Towards these ends, we have instituted five related tests:



1. User Testing

These tests assure that the product is easy to use and that the moruals, computer-assisted-instruction, and other instructional devices indeed help the user become skillful in the shortest time possible. POS Training supports the rest of POS in setting up and interpreting the results of user tests.

2. Software Testing

These tests assure that the software conforms to specifications and is robust enough to perform satisfactorily under adverse conditions and configurations. NPR will perform conformance tests, performance resourcements and system integration tests.

y, marovare testing

Operations have performed design meturity tests to assure that the hardware can perform under physical stress. In addition, they will test for reliability, performing hear Time Between Failures tests.

4. Alpha Testing

This test, which occurs after NPR has finished its bettery of tests, is a trial run of the software and training at several in-house sites unconnected with the development of Lies. Sites will be monitored for Jearning rate and bugs. Product Support will ensure the hotline, but the Distribution, Service and Support Division, responsible for the "real" dustower hotline, will use Alpha to learn about the kinds and quantities of calls we can expect at first release. Test sites will be supported by POS,

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Source: David T Craig

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5. Beta Testing (Early Release Program)

Beta is a full dress refeareal of the product and its support system. Approximately 125 Lisas will be placed in customers' businesses. They will learn to use Lisa in the same way the majority of our end-users will. They will be supported by our 800 hotline, and their machines will be serviced by RCA.

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Source: David T Craig

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4.2 Training

Training's objective is to provide knowledge about the product efficiently and cost-effectively to all of Lisa's rajor users and supporters. Training has 11 rajor audiences: and users, Apple sales people, norwfacturers' reps sales, dealer sales, Oustoner Support Specialists (uno answer the hotline), Sales Support Analysts, Area/Regional trainers, trainers in remufacturers' raps, trainers in large accounts, Technical Support Specialists, and value-acced retailers. Every group but the last will receive its introduction to Lisa through a combination of Computer Assisted Instruction and print. This orientation will allow all users to become minimally competent on an application in thirty minutes. Training materials will be thoroughly user-tested to assure quick and lasting learning.

Vrapped around this introduction will be other materials to help each group on its own special job. While POS Training has responsibility for the orientation materials, other groups will often provide information needed for the wrap-around materials.

Dealers will not be certified to sell Lisa unless they maintain trained selespeople and a trained technician on staff. Dealers will continue to be supported in their technical questions by trained Technical Support Specialists in the regional support offices.

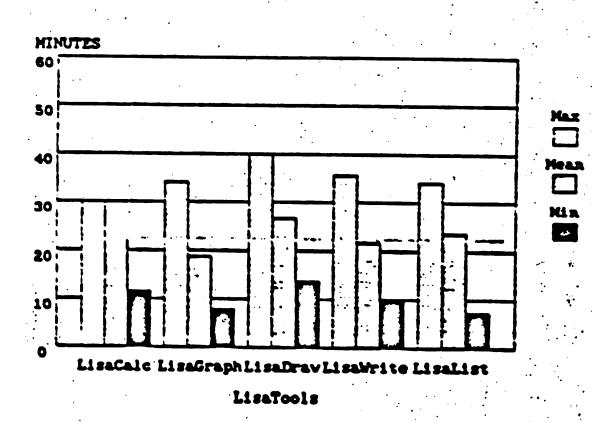
POS Product Support is responsible for the training of value-edited retailers. POS Training will help Product Support develop training materials for the third party vendors.

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Lisa helps you to be productive_

easily and quickly

Completion times for 'Getting Started'



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050.PICT" 157 KB 2000-03-13 dpi: 72h x 72v pix: 2293h x 3510v

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4.3 Service

The Lisa Service program addresses the special requirements of the office market. The goal is to provide an easily managed range of service options that cover the demands of a variety of Lisa customers. The options are:

1. On Site Service Contracts

RCA vill provice 4-nour response to on-site service calls under a yearly service contract. RCA vill be dispatched by the Telephone Support group.

2. Carry-in Service

The customer will bring the defective product to an authorized Level 1 dealer for repair. The standard warranty will cover parts and later for 90 days. Those purchasing AppleCare dealer service contracts may have their Lisas serviced while they wait.

3. Factory Authorized Level 1 and 2

Customers may elect to have their our repair facility on-site. Level 1 training will be bundled with the cost of the spares.

Value Acced Retailers and Original Equipment Harufacturers may choose which service program best fits their needs from the plans above.

A chart of the available hardware maintenance and software support options is included as Attachment L.

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Source: David T Craig Page 0052 of 0056

A. A Distorer Support

The Lisa customer requires prompt, professional support. On-site support, however, is contrary to POS's approach. We choose instead to offer high-quality, cost-effective, support over the telephone. A centralized customer telephone support facility—either at curporate or in a local regional office—will be necessary in Fiscal Year 1963, but our eventual plan is to have support lines in all the regions, accessed through a single, widely publicized 800 number.

The support lines will be staffed by intelligent, expandetic people, who are good at solving problems and at teaching over the telephone. Host Customer Support Specialists will not be technical whizzes, though every support line center will be staffed with at least one technically corretent professional. At least 90 cays of the support line service will be bundled with Lisa. After the first ninety days customers can buy access to the support lines by purchasing coupons that allow them one answer to one question.

Users may report Bugs to support line operations. They will not, of course, be onerged for Bug reports. If the Bug is known, they will be given a workeround or a restriction. If it is not known, we will verify it and call back with a workeround.

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Comprehensive Customer Support Program

Software Maintenance and Support

- · Answers to questions about the applications
- · Answers to questions about languages
- Software and manual updates
- Response to bug reports

Hardware Maintenance and Support (Joint Apple and RCA Program)

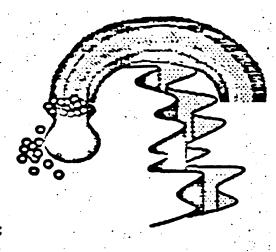
- Installation
- On-site maintenance (4-hour response)
- AppleCare carry-in maintenance

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5. Risks and Open Issues

host of the significant open issues presented in the first PIP have been resolved due to significant contributions and hard work by several groups at Apple.

The key risk at this point is, as with any project of this size, whether the software will be complete on the target cate. The indicators are that it will.



For the last several months we have been tracking the software development errorts closely. The difference between the target date and actual completion of a milestone has been converging each time. Heastrable results are also indicated by the rate of bugs reported versus bugs fixed. Thus, we are confident that we can maintain the schedule. The entire POS division is corrited to delivery of a quality product. We are also all evere that the market window is also closing, so a total corritrent is required to make it happen.

(ne termical risk which has been resolved is that of fonts and printing. Product marketing and the Software Print Shop have done an excellent job of getting printing on schedule for first release. In addition, they have provided very impositive capabilities, such as high-quality graphics on the LOP.

We have also identified resources to create software to duplicate and verify our production disks.

KEY BUSINESS RISKS

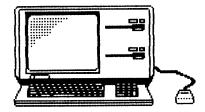
We are limited in the arount and timing of software we can
offer to outside developers (OEDs, VARS, third party). First
release Liss office applications have consumed most of our
engineering resources.

We face a risk in introducing Lise with almost no software other than what we are providing. We know that this was a significant problem in the Apple /// introduction. This issue has been discussed in the VAR Business Plan (3/25/82) and we are now doing our best to play catch-up in seeding third-party houses, as well as building software development tools.

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- 2. We may confuse the customer about product line compatibility between Lisa and Mac.
- 3. An important issue is deciding how many field and comporate "services" we can and should provide for key customers. These include such activities as the Font Center, datacom/network installation and support, pre- and post-sale and user applications support, and specialized requests.
- 4. Corpetition. The later we are to market, the more we suffer from insufficient functionality and the lack of a complete system solution, e.g., that provided by full network/detacomm capability, total integration.
- •5. Above all, this introduction is a ressive task that will require the full attention of rany of the best people and resources of Apple.



Apple Lisa Personal Computer 1983 - 1985

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